

AD-A082 968

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
193088 MLRS, MISSILE NUMBER 1057, ROUND NUMBER V-97, 8 DECEMBER--ETC(U)  
DEC 79

UNCLASSIFIED

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Meteorological data gathered for the launching of the 19308B MLRS, Missile Number 1057, Round Number V-97 are presented in tabular form.		

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## INTRODUCTION

19308B MLRS, Missile Number 1057, Round Number V-97,  
was launched from BRILLO, White Sands Missile Range (WSMR), New Mexico,  
at 1009:06 MST on 8 December 1979. The scheduled launch time was  
0845 MST.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), Wind direction and speed, and cloud cover were made at the D3-1/2 Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RPTS T-9 pibal observation at:

### SITE AND ALTITUDE

D3-1/2	2 km
DENVER	2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 81,000 feet in 500-foot increments.

### SITE AND TIME

NW30 1100 MST

TABLE 1. Surface Observations taken at 1010 MST,  
8 December 1979, at D3-1/2, 193088 MLRS,  
Missile Number 1057, Round Number V-97.

ELEVATION	3975	FT/MSL
PRESSURE	887.7	MBS
TEMPERATURE	7.5	°C
RELATIVE HUMIDITY	40	%
DEW POINT	-5.2	°C
DENSITY	1098	GM/M <sup>3</sup>
WIND SPEED	CALM	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	1 C1	

## PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM **D3-1/2** DATE **8 December 1979** TIME **1010 MST**

TRACKER      COORDINATES (WSTM)    X= 443,018.90      Y= 338,189.24      H= 3974.89

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM DENVER SITE DATE 8 December 1979 TIME 1008 MST

TRACKER COORDINATES (WSTM) X= 499,064.03 Y= 493,904.12 H 4123.10

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL       .

[illegible][illegible][illegible]



STATION ALTITUDE 4010.40 FEET MSL  
 M DEC. 79  
 ASCENSION NO. 15

SIGNIFICANT LEVEL DATA  
 3420220015  
 NW 30

GEODETTIC COORDINATES  
 32.86497 LAT DEG  
 106.49714 LON DEG

TABLE 4

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
897.5	4010.4	39.0
883.0	4148.6	41.0
870.4	4539.3	43.0
858.0	5185.0	41.0
834.4	5689.2	41.0
822.6	6071.1	41.0
766.4	8005.2	41.0
700.0	10442.7	41.0
671.4	11550.8	34.0
651.4	12350.9	52.0
604.0	14333.8	44.0
500.0	19176.3	32.0
400.0	24652.1	32.0
357.2	27320.6	33.0
315.0	30197.9	34.0
300.0	31291.0	
250.0	35267.9	
223.2	37668.6	
200.0	39263.2	
184.8	41590.9	
161.4	44375.0	
150.0	45774.1	
140.0	47290.0	
133.2	48307.8	
126.4	49376.1	
116.4	51055.1	
103.8	53368.6	
100.0	54118.1	
91.6	55392.2	
79.8	58659.2	
70.0	61278.1	
50.0	68091.0	
30.0	78650.4	
26.4	81342.3	

STATION ALTITUDE 4010.40 FEET MSL  
8 DEC. 79 1100 HRS MSL  
ASCENSION NO. 15

UPPER AIR DATA  
3420220015  
11W 30

GEODETIC COORDINATES  
32.86497 LAT DEG  
106.49714 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4010.4	837.5	9.4	39.0	1092.1	655.5	00	0	1.000265
4500.0	871.7	9.2	42.8	1073.1	655.4	195.8	1.7	1.000263
5000.0	855.8	9.3	41.6	1053.2	655.4	195.8	3.5	1.000258
5500.0	840.2	9.2	41.0	1034.5	655.3	195.8	5.2	1.000253
6000.0	824.9	10.2	41.0	1011.7	656.6	204.5	6.4	1.000250
6500.0	810.9	10.0	41.0	994.0	656.4	223.4	7.1	1.000245
7000.0	795.2	9.5	41.0	977.9	655.7	232.3	8.6	1.000241
7500.0	780.8	8.9	41.0	962.0	655.1	235.2	10.3	1.000237
8000.0	766.6	8.4	41.0	946.4	654.4	238.1	11.0	1.000232
8500.0	752.5	7.3	41.0	932.7	653.1	241.1	11.3	1.000228
9000.0	733.6	6.2	41.0	919.2	651.8	244.4	11.5	1.000224
9500.0	725.0	5.1	41.0	906.0	650.4	247.0	11.8	1.000219
10000.0	711.6	4.0	41.0	893.0	649.1	246.2	12.8	1.000215
10500.0	698.5	2.9	40.6	879.9	647.9	245.3	13.9	1.000211
11000.0	685.5	2.4	37.5	865.2	647.2	244.4	15.1	1.000206
11500.0	672.7	2.0	34.3	850.7	646.6	245.3	15.2	1.000202
12000.0	660.1	1.2	44.1	836.9	645.8	247.1	14.8	1.000201
12500.0	647.7	.4	51.4	823.4	644.9	249.0	14.3	1.000200
13000.0	635.5	-0.4	49.4	810.3	643.9	250.8	14.6	1.000195
13500.0	623.5	-1.2	47.4	797.4	643.0	251.7	16.9	1.000191
14000.0	611.7	-2.0	45.3	784.7	642.0	252.2	19.1	1.000187
14500.0	600.1	-2.8	43.6	772.3	641.0	252.4	21.2	1.000183
15000.0	588.5	-3.3	42.3	760.2	639.7	253.9	20.6	1.000180
15500.0	577.1	-4.0	41.1	748.4	638.5	255.8	19.3	1.000176
16000.0	566.0	-5.0	39.9	736.7	637.3	258.3	17.7	1.000172
16500.0	555.0	-6.0	38.6	725.2	636.1	260.9	16.4	1.000169
17000.0	544.5	-7.8	37.4	713.9	634.9	261.3	17.3	1.000166
17500.0	533.8	-8.8	36.2	702.8	633.7	261.6	18.2	1.000163
18000.0	523.5	-9.8	34.9	691.9	632.5	262.4	19.0	1.000160
18500.0	513.4	-10.8	33.7	681.1	631.3	262.4	18.9	1.000157
19000.0	503.5	-11.8	32.4	670.5	630.1	261.9	16.0	1.000154
19500.0	493.4	-12.4	32.0	660.1	628.7	261.2	15.8	1.000151
20000.0	483.5	-14.0	32.0	649.7	627.3	260.2	12.9	1.000148
20500.0	473.7	-15.2	32.0	639.5	625.8	255.4	10.4	1.000146
21000.0	464.2	-16.4	32.0	629.5	624.4	252.2	8.2	1.000143
21500.0	454.6	-17.6	32.0	619.7	622.9	250.9	8.2	1.000141
22000.0	445.7	-18.8	32.0	610.0	621.5	312.7	8.9	1.000138
22500.0	436.7	-19.9	32.0	600.5	620.0	313.3	8.7	1.000136
23000.0	427.9	-21.1	32.0	591.2	618.6	312.3	8.1	1.000134
23500.0	419.2	-22.3	32.0	582.0	617.1	307.2	6.8	1.000132

STATION ALTITUDE 4010.40 FEET MSL  
 4 DEC. 79 1100 HRS MST  
 ASCENDING 140. 15

UPPER AIR DATA  
 3420220015  
 RW 30

GEODETIC COORDINATES  
 32.84497 LAT DEG  
 106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	410.8	-23.5	32.0	573.0	615.7	307.6	6.2	1.000129
24500.0	402.5	-24.6	32.0	564.1	614.2	315.9	6.4	1.000127
25000.0	394.1	-25.7	32.1	555.3	612.0	318.6	7.5	1.000125
25500.0	385.9	-27.3	32.3	546.6	611.0	318.5	9.1	1.000123
26000.0	377.8	-28.6	32.5	538.0	609.3	322.7	11.0	1.000121
26500.0	369.9	-29.9	32.7	529.6	607.6	326.1	12.9	1.000119
27000.0	362.1	-31.2	32.9	521.4	606.0	328.1	14.2	1.000117
27500.0	354.4	-32.5	33.1	513.1	604.3	328.7	15.3	1.000115
28000.0	346.8	-33.8	33.2	504.7	602.7	324.8	15.6	1.000113
28500.0	339.3	-35.1	33.4	496.5	601.1	322.4	15.6	1.000111
29000.0	331.9	-36.4	33.6	488.4	599.4	322.3	14.9	1.000109
29500.0	324.8	-37.7	33.8	480.5	597.8	321.9	14.7	1.000108
30000.0	317.7	-39.0	33.9	472.7	596.2	321.2	14.8	1.000106
30500.0	310.8	-40.2	24.6**	464.8	594.6	318.2	15.0	1.000104
31000.0	303.9	-41.4	9.0**	456.9	593.1	314.5	15.2	1.000102
31500.0	297.1	-42.6		449.0	591.5	312.7	15.0	1.000100
32000.0	290.4	-43.8		441.2	589.9	311.1	14.8	1.000098
32500.0	283.8	-45.1		433.5	588.3	312.4	15.2	1.000097
33000.0	277.4	-46.3		426.0	586.8	313.9	15.7	1.000095
33500.0	271.1	-47.5		418.6	585.2	314.1	15.0	1.000093
34000.0	265.0	-48.8		411.4	583.6	314.3	16.3	1.000092
34500.0	259.0	-50.0		404.3	582.0	309.7	16.6	1.000090
35000.0	253.1	-51.2		397.3	580.3	304.9	17.0	1.000088
35500.0	247.3	-52.2		390.0	579.0	291.7	16.3	1.000087
36000.0	241.5	-53.0		382.1	578.0	291.7	16.9	1.000085
36500.0	235.9	-53.7		374.5	577.1	289.5	19.9	1.000083
37000.0	230.4	-54.5		367.0	576.1	285.3	23.2	1.000082
37500.0	225.0	-55.2		359.7	575.1	268.6	26.9	1.000080
38000.0	219.7	-55.8		352.1	574.4	271.4	29.8	1.000078
38500.0	214.5	-56.2		344.5	573.8	274.0	31.0	1.000077
39000.0	209.4	-56.7		337.0	573.2	277.2	31.6	1.000075
39500.0	204.5	-57.1		329.7	572.6	279.0	31.0	1.000073
40000.0	199.5	-57.6		322.6	572.0	281.4	30.4	1.000072
40500.0	194.9	-58.3		316.0	571.0	285.0	29.5	1.000070
41000.0	190.2	-59.1		309.6	570.0	289.7	29.0	1.000069
41500.0	185.7	-59.8		303.3	569.0	291.9	29.0	1.000068
42000.0	181.2	-60.2		296.5	568.3	293.9	29.2	1.000066
42500.0	176.9	-60.5		289.7	568.1	288.3	29.1	1.000065
43000.0	172.6	-60.9		283.1	567.8	282.7	29.4	1.000063
43500.0	168.4	-61.0		276.6	567.4	275.3	31.0	1.000062

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA  
3420220015  
NW 30

STATION ALTITUDE 4010.00 FEET MSL  
8 DEC. 79 1100 HRS MST  
ASCENSION NO. 15

GEODETIC COORDINATES  
32.88497 LAT DEG  
106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
					KNOTS	FEET			
44000.0	164.4	-61.3		279.3	567.0		268.6	33.2	1.000060
44500.0	160.4	-61.4		264.0	566.8		265.0	33.9	1.000059
45000.0	156.5	-61.2		257.4	567.1		261.8	34.7	1.000057
45500.0	152.6	-61.0		250.9	567.4		260.2	33.0	1.000056
46000.0	149.1	-60.9		244.6	567.6		258.5	31.3	1.000054
46500.0	145.3	-60.7		238.6	567.9		256.8	29.3	1.000053
47000.0	142.3	-60.5		232.6	568.1		255.0	27.3	1.000052
47500.0	138.5	-60.9		227.4	567.8		253.4	25.9	1.000051
48000.0	135.2	-61.9		223.0	566.2		252.7	25.8	1.000050
48500.0	132.0	-62.4		218.1	565.5		252.0	25.7	1.000049
49000.0	128.8	-62.0		212.4	566.2		251.6	25.7	1.000047
49500.0	125.6	-61.7		207.0	566.5		251.2	25.7	1.000046
50000.0	122.6	-62.0		202.3	566.1		250.3	25.7	1.000045
50500.0	119.6	-62.3		197.7	565.6		249.1	25.7	1.000044
51000.0	116.7	-62.7		193.2	565.2		248.9	25.6	1.000043
51500.0	113.9	-63.3		189.0	564.4		250.3	25.6	1.000042
52000.0	111.1	-64.0		185.0	563.5		251.8	25.4	1.000041
52500.0	108.4	-64.6		181.0	562.6		253.9	23.9	1.000040
53000.0	105.7	-65.3		177.2	561.8		255.3	22.5	1.000039
53500.0	103.1	-65.6		173.1	561.3		257.3	22.0	1.000039
54000.0	100.6	-66.3		168.2	562.3		258.2	21.5	1.000037
54500.0	98.1	-64.3		163.7	563.0		261.8	21.2	1.000036
55000.0	95.7	-64.9		159.4	563.5		267.4	21.2	1.000036
55500.0	93.4	-63.6		155.3	564.0		272.8	21.2	1.000035
56000.0	91.1	-63.5		151.4	564.1		276.5	18.9	1.000034
56500.0	88.9	-64.3		147.2	563.0		281.3	16.7	1.000033
57000.0	86.7	-65.1		145.2	561.9		282.9	14.6	1.000032
57500.0	84.5	-66.0		142.2	560.7		281.8	12.5	1.000032
58000.0	82.5	-66.8		139.2	559.6		282.0	10.9	1.000031
58500.0	80.4	-67.6		136.3	558.5		287.4	10.9	1.000030
59000.0	78.3	-67.5		132.9	558.6		292.7	11.0	1.000030
59500.0	76.3	-67.8		129.3	559.4		293.4	9.5	1.000029
60000.0	74.6	-68.4		125.7	560.1		296.4	7.7	1.000028
60500.0	72.8	-65.9		122.3	560.9		290.0	5.9	1.000027
61000.0	71.0	-65.3		119.0	561.8		255.6	5.2	1.000026
61500.0	69.2	-64.3		115.8	562.2		225.2	6.5	1.000026
62000.0	67.5	-64.3		112.9	562.4		222.6	7.5	1.000025
62500.0	65.9	-64.6		110.1	562.6		220.7	8.6	1.000025
63000.0	64.3	-64.4		107.3	562.8		222.1	8.9	1.000024
63500.0	62.7	-64.2		104.6	563.1		225.6	8.8	1.000023

STATION ALTITUDE 4010.00 FEET MSL  
 8 DEC. 79 1100 HRS MST  
 ASCENSION NO. 15

UPPER AIR DATA  
 3420220015  
 NW 30

GEODETIC COORDINATES  
 32.88497 LAT DEG  
 106.49714 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	61.2	-64.1		102.0	563.3	228.9	8.8	1.000023
63500.0	59.7	-63.9		99.4	563.5	230.4	9.4	1.000022
63000.0	58.2	-63.7		96.9	563.8	231.7	10.0	1.000022
62500.0	56.8	-63.6		94.5	564.0	232.7	10.2	1.000021
62000.0	55.4	-63.4		92.1	564.2	233.5	10.2	1.000021
61500.0	54.1	-63.2		89.8	564.4	234.5	10.3	1.000020
61000.0	52.8	-63.1		87.5	564.7	237.6	10.9	1.000019
60500.0	51.5	-62.9		85.3	564.9	240.5	11.5	1.000019
60000.0	50.2	-62.7		83.2	565.1	241.8	12.1	1.000019
59500.0	49.0	-62.5		81.1	565.5	241.7	12.9	1.000018
59000.0	47.8	-62.2		79.0	565.9	241.7	13.7	1.000018
58500.0	46.7	-61.9		77.0	566.3	249.5	15.6	1.000017
58000.0	45.6	-61.6		75.1	566.6	256.5	17.9	1.000017
57500.0	44.5	-61.5		73.2	567.0	263.1	19.7	1.000016
57000.0	43.4	-61.3		71.3	567.4	272.8	19.6	1.000016
56500.0	42.4	-60.7		69.5	567.8	282.3	20.2	1.000015
56000.0	41.4	-60.4		67.8	568.2	286.0	17.9	1.000015
55500.0	40.4	-60.2		66.1	568.6	289.4	14.4	1.000015
55000.0	39.4	-59.9		64.4	569.0	293.3	11.3	1.000014
54500.0	38.5	-59.5		62.8	569.3	291.4	11.4	1.000014
54000.0	37.6	-59.3		61.2	569.7	289.6	11.6	1.000014
53500.0	36.7	-59.0		59.7	570.1	291.4	11.9	1.000013
53000.0	35.8	-58.7		58.1	570.5	293.9	12.4	1.000013
52500.0	34.9	-58.4		56.7	570.9	300.1	12.9	1.000013
52000.0	34.1	-58.1		55.3	571.3	298.2	12.4	1.000012
51500.0	33.5	-57.9		53.9	571.6	295.0	11.9	1.000012
51000.0	32.5	-57.6		52.5	572.0	292.6	12.2	1.000012
50500.0	31.7	-57.3		51.2	572.4	289.0	13.7	1.000011
50000.0	31.0	-57.0		49.9	572.8	286.0	15.4	1.000011
49500.0	30.2	-56.7		48.6	573.2	282.6	16.3	1.000011
49000.0	29.5	-56.4		47.4	573.6	279.0	16.8	1.000011
48500.0	28.8	-56.1		46.2	574.0	275.0	17.4	1.000010
48000.0	28.1	-55.8		45.1	574.4			1.000010
47500.0	27.5	-55.5		44.0	574.7			1.000010
47000.0	26.8	-55.2		42.9	575.1			1.000010

STATION ALTITUDE 4010.40 FEET MSL  
 8 DEC. 79  
 ASCENSION: NO. 15

MANDATORY LEVELS  
 3420220015  
 11W 30

GEODETIC COORDINATES  
 32.88497 LAT DEG  
 106.49714 LONG DEG

TABLE 6

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMID. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5181.	9.3	-3.3	195.8	4.1
800.0	5833.	9.7	-2.9	231.1	8.0
750.0	8505.	7.1	-5.2	241.7	11.3
700.0	10433.	3.0	-8.9	245.5	13.7
650.0	12395.	.5	-8.2	248.0	14.4
600.0	14400.	-2.8	-13.5	252.4	21.2
550.0	16735.	-7.3	-19.1	261.1	16.9
500.0	19150.	-12.1	-25.4	261.7	17.7
450.0	21764.	-18.2	-30.8	308.4	8.6
400.0	24612.	-25.0	-36.8	318.1	6.5
350.0	27743.	-33.3	-43.9	326.3	15.5
300.0	31230.	-42.1		313.3	15.2
250.0	35192.	-51.9		298.4	16.6
200.0	39869.	-57.5		200.9	30.5
175.0	42612.	-60.6		286.1	29.2
150.0	45753.	-60.9		259.0	31.8
125.0	49463.	-61.7		251.2	25.7
100.0	53953.	-64.6		258.4	21.4
80.0	58419.	-67.8		286.3	10.9
70.0	61071.	-65.0		238.5	5.7
60.0	64162.	-63.9		230.0	9.2
50.0	67838.	-62.7		241.8	12.2
40.0	72380.	-60.0		290.5	13.4
30.0	78319.	-55.6		201.8	16.4

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.